

IN THE CLAIMS:

Claim 1-49, 53 and 74-92 were previously cancelled. Claims 50-52, 54, 59 and 64-66 are currently amended. Claims 55-58, 60-63 and 67-73 are carried forward, all as follows:

Claims 1-49 (Cancelled)

50. (Currently Amended) A device for controlling a printing press, said printing press having at least one unit embodied as a material feeding device adapted to feed a material to be printed, at least one unit embodied as one of a printing unit and a printing group to print said material received from said material feeding device and at least one unit embodied for further processing of said material printed by said one of said printing unit and said printing group, said device comprising:

at least one separate control element for each one of said at least one unit embodied as a material feeding device, said one of said printing unit and said printing group and said at least one unit for further processing of said material;

a common control system assigned to a plurality of said separate control elements of ~~several~~ of said units, said common control system having a central data memory with an identifier space, in which up-to-date actual values and/or up-to-date command variables are stored in the form of process variables, said central data memory being connected to said plurality of said separate control elements by at least one communications layer embodied as one of a higher order process unit and a

computing unit; and

wherein said central data memory has a memory area for said process variables, each of said process variables having a data structure that is designed with the use of a data set describing a projected installation for said printing press, and said central data memory is a data server that employs object management in accordance with an object model standard.

51. (Currently Amended) A device for controlling a printing press, said printing press having at least one unit embodied as a material feeding device adapted to feed a material to be printed, at least one unit embodied as one of a printing unit and a printing group to print said material received from said material feeding device and at least one unit embodied for further processing of said material printed by said one of said printing unit and said printing group, said device comprising:

a common control system assigned to several ones of said at least one unit embodied as said material feeding device, said one of said printing unit and said printing group and said at least one unit for further processing of said material units, said control system having a central data memory with an identifier space, in which up-to-date actual values and/or up-to-date command variables are stored in the form of process variables;

a process unit or a computing unit designed as a communication server to which said central data memory is connected with a signal connection;

at least one lower-order process unit to which said communication server

is connected, each of which is designed to serve a network of a defined type; and
at least one control element for one or more of said printing press units to
which said at least one lower-order process units is connected.

52. (Currently Amended) The device of claim 51, wherein said central data memory has a memory area for said process variables, each of said process variables having a data structure that is designed with the use of a data set describing a projected installation for said printing press.

53. (Cancelled)

54. (Currently Amended) The device of claim 51 ~~50~~, wherein said process unit or said computing unit is embodied as a higher-order communication server.

55. (Previously Presented) The device of claim 54, wherein said higher-order communication server has communication-specific information regarding the printing press units.

56. (Previously Presented) The device of claim 55, wherein said communication-specific information is implemented in the communication server via an interface using a configuration file.

57. (Previously Presented) The device of claim 51, wherein said signal connection is implemented with at least one network.

58. (Previously Presented) The device of claim 50, wherein basic settings of the process variables are implemented in the central data memory via the data set.

59. (Currently Amended) The device of claim 50, further comprising a control console from which said the process variables in said the central data memory can be read and/or refreshed; ~~and one or more control elements for said printing press units, also from which the process variables in the central data memory can be read and/or refreshed.~~

60. (Previously Presented) The device of claim 50, wherein said central data memory is designed as a data server with at least one open interface.

61. (Previously Presented) The device of claim 50, wherein said central data memory is designed for supporting an inter-process communication with an exchange of complex data structures.

62. (Previously Presented) The device of claim 60, wherein said interface is designed for supporting an inter-process communication with an exchange of complex data structures.

63. (Previously Presented) The device of claim 51, wherein said central data memory is a data server that employs object management in accordance with an object model standard.

64. (Currently Amended) The device of claim 51, wherein said process unit or said computing unit is designed for supporting an inter-process communication with an exchange of complex data structures.

65. (Currently Amended) The device of claim 51, wherein said process unit or said computing unit processes objects or process variables on the basis of an object management in accordance with an object model standard.

66. (Currently Amended) The device of claim 51 ~~50~~, wherein said process unit or said computing unit is connected with several of said lower-order process units, which in turn are each connected with one or with several of the plurality of control elements.

67. (Previously Presented) The device of claim 51, wherein said lower-order process unit is a server, which supports an inter-process communication with an exchange of complex data structures.

68. (Previously Presented) The device of claim 51, wherein said lower-order process

unit conducts inter-process communication on the basis of an object management in accordance with an object model standard.

69. (Previously Presented) The device of claim 51, wherein said at least one lower-order process unit is embodied as an arc net handler.

70. (Previously Presented) The device of claim 51, wherein said central data memory, said process or computing unit and/or said lower-order process unit have an operating system, which supports a method for inter-process communication that is designed for the exchange of complex data structures.

71. (Previously Presented) The device of claim 51, wherein several of said lower-order process units based on different network types and/or protocols are provided that are connected with the higher-order process or computing unit, each of which, in turn, is in respective signal connection with the printing press units based on these different network types and/or protocols.

72. (Previously Presented) The device of claim 50, wherein a program section is provided in said central data memory, by means of which set-up of the data structures for the process variables matched to the projected installation is performed using the data in the data set.

73. (Previously Presented) The device of claim 50, wherein said identifier space is freely configurable to store project installation layout and its associated data sets.

Claims 74-92 (Cancelled)